

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-8 (Cancelled).

Claims 24-32 (Cancelled).

33. (New) A vaccine for immunizing fish against ciliated ectoparasitic protozoans comprising an effective amount of a fusion protein expressed from a recombinant DNA sequence for immobilization antigen, repeat I of *Ichthyophthiirius multifiliis*, wherein said fusion protein is at least one selected from the group consisting of SEQ. ID Nos. 1-17.

34. (New) The vaccine of claim 33, wherein the fusion protein is GST-iAgI.

35. (New) The vaccine of claim 33, further comprising a medium comprising at least one of a buffer, antigen, immunostimulant or carrier.

36. (New) The vaccine of claim 33, which, when injected into a fish, provides effective protection against white spot disease caused by *Ichthyophthiirius multifiliis*.

37. (New) The vaccine of claim 33, wherein, the fusion protein is produced by *E. coli*.

38. (New) The vaccine of claim 36, wherein the disease is caused by at least one ciliated ectoparasitic protozoan.

39. (New) The vaccine of claim 38, wherein said ciliated ectoparasitic protozoan is *Ichthyophthiirius multifiliis*.

40. (New) The vaccine of claim 38, wherein said ciliated protozoan is taxonomically

related to *Ichthyophthiirius multifiliis*.

41. (New) The vaccine of claim 33, wherein said fusion protein has the sequence of SEQ. ID No. 1.

42. (New) The vaccine of claim 34, wherein the fusion protein is produced by *E. coli* containing plasmid construct pGST-iAgI.

43. (New) The vaccine of claim 33, wherein the fusion protein is purified by glutathione sepharose 4B beads.

44. (New) The vaccine of claim 33, which further comprises Freund's complete adjuvant (FCA), and which vaccine is suitable for administration by injection.

45. (New) The vaccine of claim 33, which is in a form suitable for administration by intraperitoneal injection, incorporation into fish diet, or immersion or spraying of the fish.

46. (New) The vaccine of claim 33, in a single dose form, whereby about 3g of fusion protein per gram of fish treated is provided therein.

47. (New) A method for immunizing fish against ciliated ectoparasitic protozoans, which comprises administering an effective amount of the vaccine of claim 33 to a fish.

48. (New) The method of claim 47, wherein the vaccine is for immunizing the fish against white spot disease caused by *Ichthyophthiirius multifiliis*.

49. (New) The method of claim 42, wherein the fusion protein has the sequence of SEQ. ID No. 1.